

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/532,405  
Source: PUT/10  
Date Processed by STIC: 5/3/05

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 05/03/2005

PATENT APPLICATION: US/10/532,405

TIME: 12:03:20

Input Set : A:\EX02-077C-USpatentin.txt

Output Set: N:\CRF4\05032005\J532405.raw

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3 <110> APPLICANT: EXELIXIS, INC.
5 <120> TITLE OF INVENTION: CDKL1 AS MODIFIER OF BRANCHING MORPHOGENESIS AND METHODS OF
USE
7 <130> FILE REFERENCE: EX03-077C-US
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/532,405
C--> 9 <141> CURRENT FILING DATE: 2005-04-22
9 <150> PRIOR APPLICATION NUMBER: US 60/420,554
10 <151> PRIOR FILING DATE: 2002-10-23
12 <160> NUMBER OF SEQ ID NOS: 4
14 <170> SOFTWARE: PatentIn version 3.2
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 1178
18 <212> TYPE: DNA
19 <213> ORGANISM: Homo sapiens
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24 tggagaagga tcctatggag ttgttttcaa atgtagaaac agggacacgg gtcagattgt      120
26 ggccatcaag aagtttcttg aatcagaaga tgacctgtc ataaagaaaa ttgcccttcg      180
28 ggaaatccga atgctcaagc aactcaagca tcccaacctt gttaacctcc tggaagtctt      240
30 caggaggaaa cggaggcttc acctggtgtt tgaatattgt gaccacacag ttctccatga      300
32 gttggacaga taccaaagag gggtagcaga acatctcgtg aagagcataa cttggcagac      360
34 actgcaagct gttaaattttt gccataaaca caattgcata catagagacg tgaagccaga      420
36 aaatatcctc atcacgaaac attccgtgat taagctttgt gactttggat ttgctcggtt      480
38 tttgactgga ccgagtgact actatacaga ctacgtgggt accaggtggt accgctcccc      540
40 tgagctgctg gtgggggaca cgcagtagcg cccccgggtg gatgtttggg caattggctg      600
42 tgtctttgct gagctgctgt caggagtgcc tctgtggcca ggaaaatcgg atgtggatca      660
44 gctgtatctg attaggaaga ccttggggga tctcattcct aggcaccagc aagtgtttag      720
46 cacgaatcag tacttcagtg gagtgaataa tccagacctt gaagatatgg aaccacttga      780
48 attaaaattc ccaaacatct cttatcctgc cctggggctc ctaaagggtt gtctccacat      840
50 ggaccctact gaaaggctga catgtgaaca gctgttgcat caccatatt ttgaaaacat      900
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54 gagccgaaag caccactgct ttacagaaac atccaagttg cagtacctac cccagctaac      1020
56 tggcagcagc atccttccag ctttggataa taagaagtac tactgtgata ccaagaaact      1080
58 taactaccgt tttccaaaca tttaaaggag ctaaggagag atgattttta aaaaggaatc      1140
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68 <400> SEQUENCE: 2
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73 ggccatcaag aagtttcttg aatcagaaga tgacctgtc ataaagaaaa ttgcccttcg      180
75 ggaaatccga atgctcaagc aactcaagca tcccaacctt gttaacctcc tggaagtctt      240

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79 gttggacaga taccaaagag gggtagcaga acatctctgt aagagcataa cttggcagac 360
81 actgcaagct gttaaattttt gccataaaca caattgcata catagagacg tgaagccaga 420
83 aaatatcctc atcacgaaac attccgtgat taagctttgt gactttggat ttgctcggct 480
85 tttgactgga cggagtgact actatacaga ctacgtggct accagggtgt accgctcccc 540
87 tgagctgctg gtgggggaca cgcagtacgg cccccgggtg gatgtttggg caattggctg 600
89 tgtctttgct gagctgctgt caggagtgcc tctgtggcca ggaaaatcgg atgtggatca 660
91 gctgtatctg attaggaaga ccttggggga tctcattcct aggcaccagc aagtgtttag 720
93 cacgaatcag tacttcagtg gagtgaatat tccagaccct gaagatatgg aaccacttga 780
95 attaaaattc ccaaaccatc cttatcctgc cctggggctc ctaaagggtc gtctccacat 840
97 ggacctactc caaggctga catgtgaaca gctgttgcac caccatatt ttgaaaacat 900
99 cagagaaata gaggatttgg caaaagaaca caacaaacca acaaggaaga ccctaagaaa 960
101 gagccgaaag caccactgct ttacagaaac atccaagttg cagtacctac ccagctaac 1020
103 tggcagcagc atccttccag ctttggataa taagaagtac tactgtgata ccaagaaact 1080
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107 atagatgctt tgaagaaaat aaaacttata cagtt 1175
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111 <211> LENGTH: 2982
112 <212> TYPE: DNA
113 <213> ORGANISM: Homo sapiens
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120 tctccaacc agacttacgc acacaagtct cagtctgaaa gagagcagca caaggaagta 180
122 cgtgctgtcc tgaaccattg ttctggcttg gatggtggag aggagtctgg cttttgtggg 240
124 acaagtaccc gcattgatgc tggcactggg aacgggacgg atgataaagt cactgatcag 300
126 cacagacaca gaagatgcct ccaagggacc aaaggggaata accgcggttc tgagggtgtg 360
128 ggactgctgt tgcagggaaa tgtggaccgc tcaggagggg ctccatagcg aggcgtcttg 420
130 ctccgcagac gcggttacag ctgcgctttg cacggcctgc ggaagtttgc aaatctagca 480
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136 ggagaaggat cctatggagt tgttttcaaa tgtagaaaca gggacacggg tcagattgtg 660
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140 gaaatccgaa tgctcaaggc cccaagcccc tatgctgctg aaccttctct ctgtggaatg 780
142 aaaatggtaa gaagaggaaa gaaagaattt ctgccagcag tggcagaaaa agtagatgct 840
144 cctagcggag ttggaggtca aggacaggac agtgtcactg tgggatccct gggcagacgt 900
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148 tatgtggcag ttttgcttcg gatttactat tttgaccagg gttgtgttgc cagggaggaa 1020
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152 catagaacca atgtgaggcc ttacatttta ctactatcac ggcccagccc cttcaagacg 1140
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156 caagaacctt attgccctac tcaggcactg caacaacctc atcctattat aggtccgtgg 1260
158 gccctagaag gaggtggggg agaataaag gaggacaggc atccccctcc taaggaggca 1320
160 cctgcatcat gtgagggttt ttaaggtct gcagtgccga agcaagctta caccctattc 1380
162 aaaaccagcc ctgacaaaag gcttagtgac tgtgttgcta cacctccctg ggctcctccc 1440
164 accccactta tcatcagcag tggggctcct gttgccatct gctccatgat tgatccagtt 1500
166 ccagaattcc attctgaagg cctgctagct aaggccactt caggaagtgc tggaatcctg 1560
168 gtatggatat ttttatgcaa tgatgctttt atttatggaa agtatattct cagaagtgga 1620
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172 tgttacagca gtgcggagccc aaagcgtgag cagcagcaag atttattgca aagagtgaaa 1740
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176 caccagactc aggagcccag ctggcctcac ccagtggatc ccacaccagg ccacaggtgg 1860
178 agctgcctgc cagtcccatg ccgtgcgccc gcactcctca gtccttgggt ggtcgatggg 1920
180 accgggtgct gcggagcagg gggcggttct gatcgtggag gctcgccgc gcaggagccc 1980
182 acgcaactca agcatcccaa ccttggttaac ctctggaag tcttcaggag gaaacggagg 2040
184 cttcacctgg tgtttgaata ttgtgaccac acagttctcc atgagttgga cagataccaa 2100
186 agaggcatat gcaacatctt tgtgtgcaact ggaagaagac ttggtgagca cacagaggcc 2160
188 ttgtccaaga aaaagaaaaa aggaggaggg ggtcccttcc tgaagttgag ggcagcctct 2220
190 tgcaggatca ccctgtttaa gaatgttggc tgtgggctgg aaaccacagg tgatttgagt 2280
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204 gatcagctgt atctgattag gaagaccttg ggggatctca ttcctaggca ccagcaagtg 2700
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208 tgctgtcag taacctgac agaggaggc ctgcttgctt ctggggctgt gaaacgctca 2820
210 cagatgggct ccagcgtatc acaggcaacc agttggcctc atccagacat tgttgctgag 2880
212 acagcagagc tcgatgatat agcaatggca cgtcaaacc cagtgatgct cagattcaac 2940
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217 &lt;210&gt; SEQ ID NO: 4

218 &lt;211&gt; LENGTH: 358

219 &lt;212&gt; TYPE: PRT

220 &lt;213&gt; ORGANISM: Homo sapiens

222 &lt;400&gt; SEQUENCE: 4

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224 Met Met Glu Lys Tyr Glu Lys Ile Gly Lys Ile Gly Glu Gly Ser Tyr
225 1 5 10 15
228 Gly Val Val Phe Lys Cys Arg Asn Arg Asp Thr Gly Gln Ile Val Ala
229 20 25 30
232 Ile Lys Lys Phe Leu Glu Ser Glu Asp Asp Pro Val Ile Lys Lys Ile
233 35 40 45
236 Ala Leu Arg Glu Ile Arg Met Leu Lys Gln Leu Lys His Pro Asn Leu
237 50 55 60
240 Val Asn Leu Leu Glu Val Phe Arg Arg Lys Arg Arg Leu His Leu Val
241 65 70 75 80
244 Phe Glu Tyr Cys Asp His Thr Val Leu His Glu Leu Asp Arg Tyr Gln
245 85 90 95
248 Arg Gly Val Pro Glu His Leu Val Lys Ser Ile Thr Trp Gln Thr Leu
249 100 105 110
252 Gln Ala Val Asn Phe Cys His Lys His Asn Cys Ile His Arg Asp Val
253 115 120 125
256 Lys Pro Glu Asn Ile Leu Ile Thr Lys His Ser Val Ile Lys Leu Cys
257 130 135 140
260 Asp Phe Gly Phe Ala Arg Leu Leu Thr Gly Pro Ser Asp Tyr Tyr Thr
261 145 150 155 160
264 Asp Tyr Val Ala Thr Arg Trp Tyr Arg Ser Pro Glu Leu Leu Val Gly
265 165 170 175

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268 Asp Thr Gln Tyr Gly Pro Pro Val Asp Val Trp Ala Ile Gly Cys Val
269          180          185          190
272 Phe Ala Glu Leu Leu Ser Gly Val Pro Leu Trp Pro Gly Lys Ser Asp
273          195          200          205
276 Val Asp Gln Leu Tyr Leu Ile Arg Lys Thr Leu Gly Asp Leu Ile Pro
277          210          215          220
280 Arg His Gln Gln Val Phe Ser Thr Asn Gln Tyr Phe Ser Gly Val Lys
281 225          230          235          240
284 Ile Pro Asp Pro Glu Asp Met Glu Pro Leu Glu Leu Lys Phe Pro Asn
285          245          250          255
288 Ile Ser Tyr Pro Ala Leu Gly Leu Leu Lys Gly Cys Leu His Met Asp
289          260          265          270
292 Pro Thr Glu Arg Leu Thr Cys Glu Gln Leu Leu His His Pro Tyr Phe
293          275          280          285
296 Glu Asn Ile Arg Glu Ile Glu Asp Leu Ala Lys Glu His Asp Lys Pro
297          290          295          300
300 Thr Arg Lys Thr Leu Arg Lys Ser Arg Lys His His Cys Phe Thr Glu
301 305          310          315          320
304 Thr Ser Lys Leu Gln Tyr Leu Pro Gln Leu Thr Gly Ser Ser Ile Leu
305          325          330          335
308 Pro Ala Leu Asp Asn Lys Lys Tyr Tyr Cys Asp Thr Lys Lys Leu Asn
309          340          345          350
312 Tyr Arg Phe Pro Asn Ile
313          355

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/532,405

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Input Set : A:\EX02-077C-USpatentin.txt

Output Set: N:\CRF4\05032005\J532405.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date